## Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of the claims in the application:

## **Listing of Claims**

1. (original) A method for detecting DESC1 gene expression in a sample from a subject comprising the following steps:

providing a tissue sample from the subject; assaying for expression of the DESC 1 gene in the sample.

- 2. (currently amended) An isolated nucleic acid comprising a polynucleotide encoding a protein having at least 90% identity to the a DESC1 protein shown in Figure 1A or B wherein the DESC1 protein comprises the amino acid sequence set forth in SEQ ID NO. 2 or SEQ ID NO. 4.
- 3. (currently amended) The An isolated nucleic acid of claim 2 wherein the comprising a polynucleotide that encodes a mature from form or a soluble form of the a DESC1 protein, wherein the mature form of the DESC1 protein comprises the amino acid sequence of SEQ ID NO. 2 or SEQ ID NO. 4, and where the soluble form of the DESC 1 protein comprises amino acid 191 through amino acid 422 of SEQ ID NO. 2 or SEQ ID NO. 4.
- 4. (original) A recombinant vector comprising the nucleic acid of claim 2.
- 5. (previously amended) A recombinant host cell comprising the recombinant vector of claim 4.
- 6-8 (currently canceled)
- 9. (currently amended) The An isolated nucleic acid of claim 2 that encodes a mature form of a DESC1 protein, wherein the nucleic acid hybridizes under stringent conditions with the nucleotide sequence shown in Figure 1A or 1B SEQ ID NO. 1 or SEQ ID NO. 3.

10. (withdrawn) A method for diagnosing squamous cell carcinoma in a subject, comprising:

determining the presence, absence, or amount of expression of the DESC1 gene in a tissue sample obtained from the subject, wherein the diagnosis of squamous cell carcinoma is based on the presence, absence, or amount of expression of the DESC 1 gene in the sample.

- 11. (withdrawn) The method of claim 10 wherein the tissue sample is an epithelial tissue sample from the head, neck, oral mucosa, tonsils or skin of the subject.
- 12. (withdrawn) The method of claim 10 wherein the level of DESC 1 gene expression is determined using a nucleic acid probe which hybridizes to a transcript of the DESC 1 gene.
- 13. (withdrawn) The method of claim 10 wherein the level of expression of the DESC 1 gene is determined using a polymerase chain reaction and primers which are complementary to specific regions of the DESC 1 gene.
- 14. (withdrawn) The method of claim 10 wherein the level of expression of the DESC 1 gene is determined by assaying for the presence, or absence, or a change in the levels of the protein encoded by the DESC 1 gene in the sample.
- 15. (withdrawn) The method of claim 14 wherein an antibody which is immunospecific for the protein encoded by the DESC 1 gene is employed in the assay.
- 16. (withdrawn) A method for diagnosing prostate carcinoma in a subject, comprising:
  determining the presence of, or absence of, or amount of expression of the DESC1 gene
  in a tissue sample obtained from the prostate of the subject, wherein the diagnosis of prostate
  carcinoma is based on the presence, absence, or amount of expression of the DESC 1 gene in the
  sample.
- 17. (withdrawn) The method of claim 16 wherein the level of DESC 1 gene expression is determined using a nucleic acid probe which hybridizes to a transcript of the DESC 1 gene.
- 18. (withdrawn) The method of claim 16 wherein the level of expression of the DESC 1 gene is determined using a polymerase chain reaction and primers which are complementary to specific regions of the DESC 1 gene.

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- 19. (withdrawn) The method of claim 16 wherein the level of expression of the DESC 1 gene is determined by assaying for the presence, or absence, or a change in the levels of the protein encoded by the DESC 1 gene in the sample.
- 20. (withdrawn) The method of claim 19 wherein an antibody which is immunospecific for the protein encoded by the DESC 1 gene is employed in the assay.
- 21. (currently amended) An isolated polynucleotide which encodes amino acids 191 through 422 of the amino acid sequence shown in Figures 1A or 1B hybridizes under stringent conditions to a sequence comprising nucleotide 626 through nucleotide 1321 of SEQ ID NO. 1 or SEQ ID NO. 3.
- 22. (currently canceled)